

Specifications — MAV Plus 64 Series

Video— video BMEs

Routing	64 x 64, 64 x 48, 64 x 32, 48 x 64, 48 x 48, 48 x 32, 32 x 48, or 32 x 64 matrix
Gain	Unity
Bandwidth.....	150 MHz (-3 dB), fully loaded
0 - 10 MHz	No more than +0.1 dB to -0.1 dB
0 - 130 MHz	No more than +0.1 dB to -0.1 dB
Crosstalk.....	-80 dB @ 1 MHz, -62 dB @ 10 MHz, -52 dB @ 30 MHz
Switching speed	200 ns (max.)

Video input— video BMEs

Number/signal type.....	32, 48, or 64 composite video
Connectors	32, 48, or 64 BNC female
Nominal level	1 Vp-p for composite video
Minimum/maximum levels.....	Analog: 0.5 V to 2.0 Vp-p with no offset
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 150 kHz
Vertical frequency.....	30 Hz to 150 Hz
Return loss.....	<-30 dB @ 5 MHz
DC offset (max. allowable).....	1.5 V

Video output— video BMEs

Number/signal type.....	32, 48, or 64 composite video
Connectors	32, 48, or 64 BNC female
Nominal level	1 Vp-p for composite video
Minimum/maximum levels.....	0 V to 2.0 Vp-p (follows input)
Impedance.....	75 ohms
Return loss.....	<-30 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset
Switching type.....	Vertical interval

Sync— video BMEs

Genlock connectors.....	1 BNC female
Standards.....	NTSC 3.58, NTSC 4.43, PAL, SECAM

Audio— audio BMEs

Routing	(32, 48, or 64) x (32, 48, or 64) stereo or mono matrix
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NOTE Both stereo (2 channel) and mono (1 channel) audio models are available.

Gain	Unbalanced output: -6 dB; balanced output 0 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.03% @ 1 kHz at nominal level
S/N.....	>90 dB, balanced, at maximum output (21 dBu), unweighted
Crosstalk.....	<-80 dB @ 1 kHz, fully loaded
Stereo channel separation	>80 dB @ 1 kHz
CMRR.....	>75 dB @ 20 Hz to 20 kHz

Audio input— audio BMEs

Number/signal type.....	32, 48, or 64 stereo balanced/unbalanced or 32, 48, or 64 mono balanced/unbalanced
Connectors	
Stereo models.....	(32, 48, or 64) 3.5 mm captive screw connectors, 5 pole
Mono models	(32, 48, or 64) 3.5 mm captive screw connectors, 3 pole
Impedance.....	>10k ohm, balanced/unbalanced, DC coupled

Specifications — MAV Plus 64 Series, cont'd

Nominal level	-10 dBV (316 mVrms)
Maximum level.....	+19.5 dBu, (balanced or unbalanced) at 1% THD+N
Input gain adjustment	-18 dB to +24 dB, adjustable per input by RS-232/422, Ethernet, or front panel

NOTE $0\text{ dBu} = 0.775\text{ Vrms}$, $0\text{ dBV} = 1\text{ Vrms}$, $0\text{ dBV} \approx 2\text{ dBu}$

Audio output— audio BMEs

Number/signal type.....	32, 48, or 64 stereo balanced/unbalanced <i>or</i> 32, 48, or 64 mono balanced/unbalanced
Connectors	
Stereo models.....	(32, 48, or 64) 3.5 mm captive screw connectors, 5 pole
Mono models	(32, 48, or 64) 3.5 mm captive screw connectors, 3 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Gain error	± 0.1 dB channel to channel
Maximum level (Hi-Z)	$> +21$ dBu, balanced or unbalanced at 0.1% THD+N
Maximum level (600 ohm).....	$> +15$ dBm, balanced or unbalanced at 0.1% THD+N
Output volume range.....	0 to 64 (-98 dB to 0 dB) in 0.5 dB increments from steps 1 to 64, 35 dB increment from step 0 to 1

Control/remote — switcher

Serial control port.....	1 RS-232 or RS-422, 9-pin female D connector
Baud rate and protocol.....	9600 (default), 19200, 38400, 115200 baud (adjustable); 8 data bits, 1 stop bit, no parity
Serial control pin configurations.	RS-232: 2 = TX, 3 = RX, 5 = GND RS-422: 2 = TX-, 3 = RX-, 5 = GND, 7 = RX+, 8 = Tx+
Ethernet control port.....	1 RJ-45 female connector
Ethernet data rate.....	10/100Base-T, half/full duplex with autodetect
Ethernet protocol.....	ARP, DHCP, ICMP (ping), TCP/IP, Telnet, HTTP
Program control.....	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) Microsoft® Internet Explorer, Telnet

General

Power	100 VAC to 240 VAC, 50/60 Hz, internal, primary and redundant
Video models	110 watts at 115 VAC, 60 Hz
All audio models.....	195 watts at 115 VAC, 60 Hz

NOTE *A redundant power supply is standard.*

Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	
Video models	Fan, right to left (viewed from the front panel)
Audio models	Convection, vents on right and left sides
Rack mount	Yes, with included parts
Enclosure type	Metal
Enclosure dimensions	
Video BMEs.....	10.5" H x 17.0" W x 14.1" D (6U high, full rack wide) (26.7 cm H x 43.2 cm W x 35.8 cm D)
Audio BMEs.....	12.25" H x 17.0" W x 14.1" D (7U high, full rack wide) (31.1 cm H x 43.2 cm W x 35.8 cm D)

Product weight per BME

32 x 48 through 64 x 64 Series video BMEs	18.0 lbs (8.2 kg)
32 x 48 through 64 x 64 Series stereo audio BMEs.....	19.0 lbs (8.6 kg)
32 x 48 through 64 x 64 Series mono audio BMEs.....	18.5 lbs (8.4 kg)

Shipping weight per BME

32 x 48 through 64 x 64 Series video BMEs	29 lbs (13 kg)
32 x 48 through 64 x 64 Series stereo audio BMEs.....	31 lbs (14 kg)
32 x 48 through 64 x 64 Series mono audio BMEs.....	30 lbs (14 kg)

DIM weight, international, per BME 44 lbs (20 kg)

Vibration..... ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety..... CE, CUL, UL

EMI/EMC CE, C-tick, FCC Class A, ICES, VCCI

MTBF..... 30,000 hours

Warranty..... 3 years parts and labor

NOTE *All nominal levels are at $\pm 10\%$.*

NOTE *Specifications are subject to change without notice.*

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